Gulf of Mexico Harmful Algal Bloom Bulletin

8 March 2007

NOAA Ocean Service

NOAA Satellites and Information Service

Last bulletin: March 5, 2007

Conditions Report

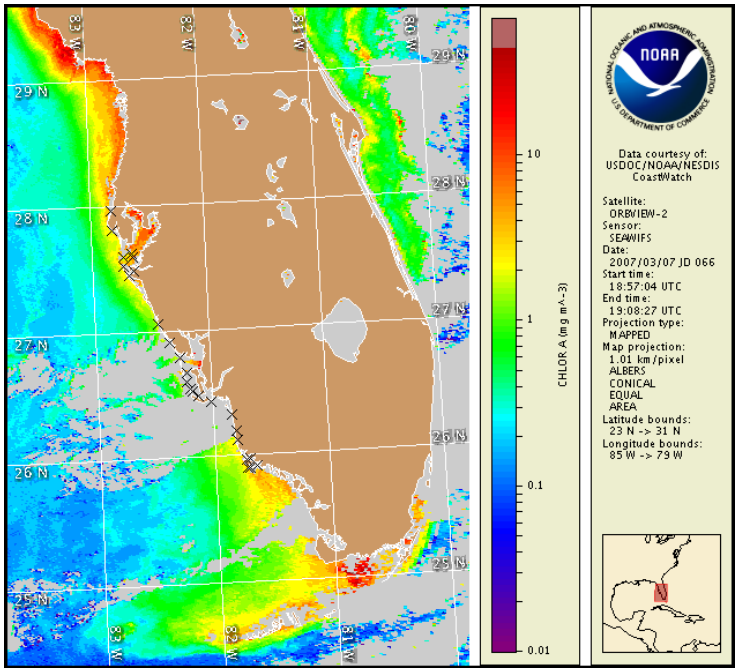
A harmful algal bloom has been identified south of the Lower and Middle Keys in Monroe County. On Sunday, patchy high impacts are possible in the oceanside Lower Keys region. No other impacts are expected through Sunday in southwest Florida.

Analysis

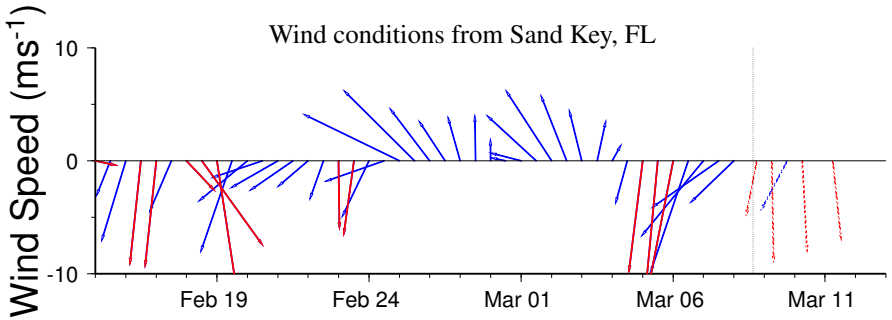
A harmful algal bloom has been identified south of the Keys. Imagery from March 7 shows a feature with elevated chlorophyll, with concentrations greater than 2 μg/L, south of the Lower Keys around 24°35N 81°33W. Sampling is recommended. Westward transport of the bloom is possible through Sunday.

Recent samples off the southwest Florida coast didnt contain Karenia brevis. Imagery from March 6 shows a feature with elevated chlorophyll, with concentrations greater than 15 μg/L, southeast of Sanibel around 26°25N 82°0'W. A sample taken on March 1 at Buttonwood Beach on Sanibel Island contained no *Karenia brevis*, so this feature may be a mixed bloom. A wind transport model indicates negligible transport since March 6, so this feature may still be in the same general area. Sampling is recommended.

Bronder, Urizar



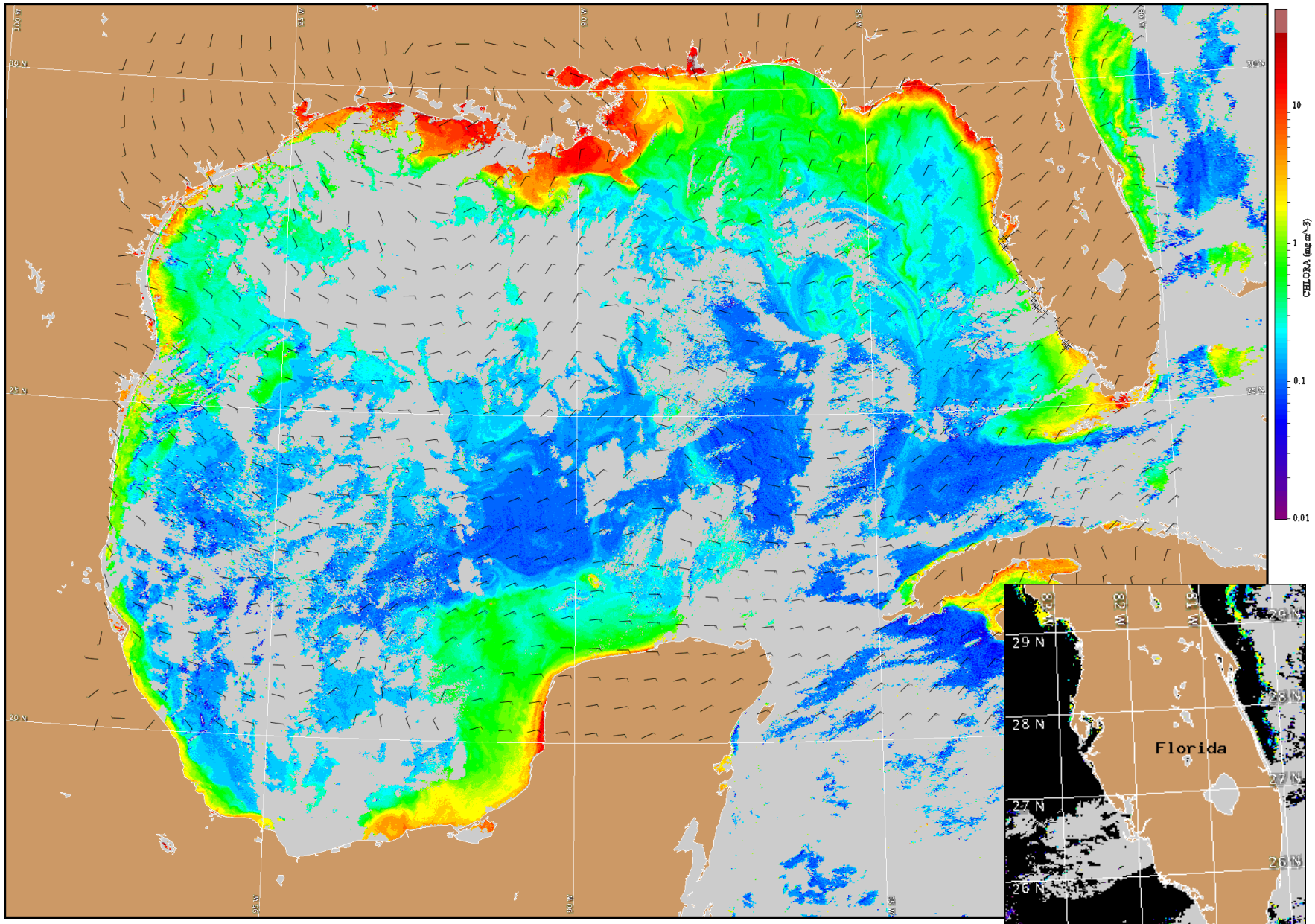
Satellite chlorophyll image with possible HAB areas shown by red polygon(s).Cell concentration sampling data from February 26-March 6 shown as red squares (high), red triangles (medium), red diamonds (low b), red circles (low a), orange circles (very low b), yellow circles (very low a), green circles (present), and black "X" (not present). For a list of cell count data providers and a key to the cell concentration categories, please see the the HABFS bulletin guide: http://www.csc.noaa/gov/crs/habf/habfs_bulletin_guide.pdf



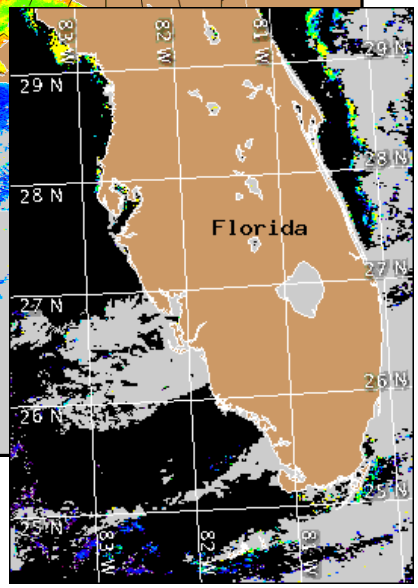
Wind speed and direction are averaged over 12 hours from buoy measurements. Length of line indicates speed; angle indicates direction. Red indicates that the wind direction favors upwelling near the coast. Values to the left of the dotted vertical line are measured values; values to the right are forecasts.

Lower Keys: Winds will be north to northeast (15 kts, 8 m/s) today, northeast (15 kts, 8 m/s) tomorrow and Saturday, east (15 kts, 8 m/s) Sunday.

SW Florida: Winds will be north (10 kts, 5 m/s) today, east becoming northwest (10 kts, 5 m/s) tomorrow, variable (10 kts, 5 m/s) Saturday, east becoming onshore (10 kts, 5 m/s) Sunday.



Satellite chlorophyll image and forecast winds for March 9, 2007 12Z with cell concentration sampling data from February 26-March 6 shown as red squares (high), red triangles (medium), red diamonds (low b), red circles (low a), orange circles (very low b), yellow circles (very low a), green circles (present), and black "X" (not present). For a list of cell count data providers and a key to the cell concentration categories, please see the the HABFS bulletin guide: http://www.csc.noaa/gov/crs/habf/habfs_bulletin_guide.pdf



Verifi ed HAB areas shown in red. Other bloom areas shown in yellow (see p. 1 analysis for interpretation).

Wind conditions from Venice Pier, FL